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Hancock County)	Findings of Fact and Order
Ellsworth, ME)	Air Emission License
A-233-71-G-A)	Amendment #1

After review of the air emissions license amendment application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

I. REGISTRATION

- 1. Maine Coast Memorial Hospital (MCMH) of Ellsworth, Maine was issued Air Emission License A-233-71-F-R on May 27, 1999, permitting the operation of emission sources associated with their Ellsworth facility.
- 2. MCMH has requested an amendment to their license in order to replace Boiler #2 with Boiler #7, add Boilers #8 and #9, remove Stack #1 and replace it with stacks #5 and #6, and replace all #4 fuel oil with #2 fuel oil.

A. Emission Equipment

MCMH is authorized to operate the following equipment:

Fuel Burning Equipment

Equipment	Maximum Capacity (MMBtu/hr)	Maximum Firing Rate (gal/hr)	Fuel Type, <u>% sulfur</u>	Stack #
Boiler #7	8.3	59.3	#2 fuel oil, 0.35%	4
Boiler #8	1.04	7.4	#2 fuel oil, 0.35%	6
Boiler #9	1.04	7.4	#2 fuel oil, 0.35%	6

B. Application Classification

The modification of a minor source is considered a major modification based on whether or not expected emission increases exceed the "Significant Emission Levels" as given in Maine's Air Regulations. This modification is determined to be a minor modification and has been processed as such.

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II. BEST PRACTICAL TREATMENT (BPT)

A. Introduction

In order to receive a license the applicant must control emissions from each unit to a level considered by the Department to represent Best Practical Treatment (BPT), as defined in Chapter 100 of the Department regulations. Separate control requirement categories exist for new and existing equipment as well as for those sources located in designated non-attainment areas.

BPT for new sources and modifications requires a demonstration that emissions are receiving Best Available Control Technology (BACT), as defined in Chapter 100 of the Air Regulations. BACT is a top-down approach to selecting air emission controls considering economic, environmental and energy impacts.

B. New Source Performance Standards (NSPS)

MCMH is not subject to NSPS 40 CFR Part 60, Subpart Dc since none of the new Boilers exceed 10 MMBtu/hr requirement.

C. Boiler #7

A 8.3 MMBtu/hr package Boiler manufactured in 2003.

BACT for Boiler #7 shall be the following:

PM/PM₁₀ - 0.08 lb/MMBtu, BACT

SO₂ – combustion of 0.35% sulfur #2 fuel oil, 0.22 lb/MMBtu, mass balance

NOx – good combustion, 0.3 lb/MMBtu, AP-42

CO – good combustion, 5.0 lb/1000 gal, AP-42

VOC – good combustion, 0.2 lb/1000 gal, AP-42

Opacity -20% on six minute block average, except for no more than two (2) six (6) minute block averages in a 3-hour period.

The licensed lb/hr emission limits are based on the BACT lb/MMBtu or lb/1000 gal.

D. Boilers #8 & #9

Two identical 1.04 MMBtu/hr boilers manufactured in 2003.

BACT for Boilers #8 & #9 shall be the following:

PM/PM₁₀ - 0.08 lb/MMBtu, BACT

SO₂ – combustion of 0.35% sulfur #2 fuel oil, 0.22 lb/MMBtu, mass balance

NOx – good combustion, 0.3 lb/MMBtu, AP-42

CO – good combustion, 5.0 lb/1000 gal, AP-42

VOC – good combustion, 0.2 lb/1000 gal, AP-42

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Opacity -20% on six minute block average, except for no more than two (2) six (6) minute block averages in a 3-hour period.

The licensed lb/hr emission limits are based on the BACT lb/MMBtu or lb/1000 gal.

E. Fuel Use and Emission Limits

MCMH shall be limited to 500,000 gal of #2 fuel oil with a sulfur content not to exceed 0.35%, based on a 12 month rolling total:

Total Allowable Annual Emission for the Facility Tons/year

(used to calculate the annual license fee)

Equipment	<u>PM</u>	\underline{PM}_{10}	\underline{SO}_2	<u>NO</u> _X	<u>CO</u>	<u>voc</u>
All Boilers	2.7	2.7	7.3	10.1	1.2	0.1
#10 Generator @ 500 hr/yr	0.2	0.2	0.1	6.0	1.3	0.5
TOTALS	2.9	2.9	7.4	16.1	1.5	0.6

III.AMBIENT AIR QUALITY ANALYSIS

According to the Maine Regulations Chapter 115, the level of air quality analyses required for a minor new source shall be determined on a case-by case basis.

Based on the information available in the file, and the similarity to existing sources, Maine Ambient Air Quality Standards (MAAQS) will not be violated by this source.

ORDER

Based on the above Findings and subject to conditions listed below, the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards,
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License A-233-71-G-A subject to the conditions found in Air Emission License A-233-71-F-R and in the following conditions:

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SPECIFIC CONDITIONS

(20) Boiler #7

A. Emissions shall not exceed the following:

Equipment		PM	PM_{10}	SO_2	NO _x	СО	VOC
Boiler #7	lb/MMBtu	0.08	-	-	-	-	-
	lb/hr	0.7	0.7	1.8	2.5	0.3	0.1

B. MCMH shall limit visible emissions to 20% on six minute block average, except for no more than two (2) six (6) minute block averages in a 3-hour period.

(21) Boilers #8 & #9

A. Emissions from each boiler shall not exceed the following:

Equipment		PM	PM_{10}	SO ₂	NO _x	СО	VOC
Boiler #8	lb/MMBtu	0.08	-	-	-	-	-
	lb/hr	0.1	0.1	0.2	0.3	0.1	0.1

B. MCMH shall limit visible emissions to 20% on six minute block average, except for no more than two (2) six (6) minute block averages in a 3-hour period.

(22) Fuel Use Limits

Fuel use shall be limited to 500,000 gal of #2 fuel oil with a maximum sulfur content of 0.35%, based on a 12 month rolling total.

Fuel use records shall be kept detailing the gallons and sulfur content of the fuel deliveries.

(23) MCMH shall pay the annual air emission license fee within 30 days of May 31st of each year. Pursuant to Title 38-353-A, failure to pay this annual fee in the stated timeframe is sufficient grounds for revocation of the license under section 341-D, subsection 3.

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D DATED IN AUGUSTA, MAINE	ETHIS	DAY OF	2003
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AWN R. GALLAGHER, COMM	ISSION	 ER	
EASE NOTE ATTACHED SHEET FO	R GUIDA	NCE ON APPEAL PROCEDURE	S
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